

## CONTENTS OF VOLUME 29

### *Number 1*

Editorial . . . . .	1
Modeling Prawn Production Management System: A Dynamic Markov Decision Approach . . . . .	5
PINGSUN LEUNG & YUNG C. SHANG (USA)	
Simulation of DNA, Protein and Fat Accretion in Growing Steers . . . . .	21
O. N. DI MARCO (Argentina), R. L. BALDWIN & C. C. CALVERT (USA)	
Evaluation of A New Technology When Applied to Sheep Production Systems: Part I—Model Description . . . . .	35
P. J. BOWMAN, D. A. WYSEL, D. G. FOWLER & D. H. WHITE (Australia)	
An Integrated Expert Decision Support System for Agricultural Management . . . . .	49
R. E. PLANT (USA)	
Optimal Greenhouse Production under Economic Constraints . . . . .	67
IDO SEGNER (Israel)	
Simulating the Effects of Bioengineered Non-Ice Nucleating Bacteria on Potato Yields . . . . .	81
D. A. ANDOW, P. S. TENG, K. B. JOHNSON & S. S. SNAPP (USA)	
Book Reviews . . . . .	93

### *Number 2*

The Use and Productivity of Labour in Shifting Cultivation: An East Malaysian Case Study . . . . .	97
R. A. CRAMB (Australia)	
An Impact and Performance Evaluation of Smallholder Participation in Tree Planting, Nigeria . . . . .	117
G. J. OSEMEOBO (Nigeria)	
A Phenomenological Model of Coastal Bermudagrass Production . . . . .	137
A. R. OVERMAN, E. A. ANGLE & S. R. WILKINSON (USA)	
Livestock Productivity Assessment and Herd Growth Models . . . . .	149
MARTIN UPTON (UK)	

*Contents of Volume 29*

389

Winter Fattening of Beef Cattle: From Research Station Trials to Implementation by Farmers . . . . .	165
T. FARRINGTON, D. K. V. MARSH & L. MAYER (Botswana)	
Progressive Validation of Queensland Horticultural Crop Forecasts . . . . .	179
D. G. MAYER, D. SCHOORL & J. E. HOLT (Australia)	
Book Reviews . . . . .	189

*Number 3*

Cyclical Behaviour in The South African Meat Industry: Analysis and Control . . . . .	193
P. W. UYS (Republic of South Africa)	
Soyabean Production in the Tropics—A Simulation Case for Mexico. . . . .	219
R. PATRON SARTI & J. G. W. JONES (UK)	
Biophysical Simulation for Evaluating New Crops: The Case of Switchgrass for Biomass Energy Feedstock . . . . .	233
J. LOWENBERG-DeBOER & J. H. CHERNEY (USA)	
Implementation and Evaluation of a Steer Growth Model . . . . .	247
O. N. DI MARCO (Argentina) & R. L. BALDWIN (USA)	
A Generic Planning Model for Use in the Livestock Feed Sector of Developing Countries . . . . .	267
M. R. JONES (UK)	

*Number 4*

Evaluation of a New Technology When Applied to Sheep Production Systems: Part II—Real-time Ultrasonic Scanning of Ewes in Mid-pregnancy . . . . .	287
P. J. BOWMAN, D. G. FOWLER, D. A. WYSEL & D. H. WHITE (Australia)	
Goat and Sheep Population Changes on a Masai Group Ranch in South-Western Kenya, 1978–1986 . . . . .	325
R. TREVOR WILSON (Ethiopia) & MICHAEL OLE MAKI (Kenya)	
Analysis of the Use of Energy in Agriculture—Approaches and Problems . . . . .	339
M. R. JONES (UK)	
An Application of the Markov Chain Approach to Forecasting Cotton Yields from Surveys . . . . .	357
J. H. MATIS, T. BIRKETT & D. BOUDREAUX (USA)	
Cattle Dynamics and Their Implications in Pabna District, Bangladesh . . . . .	371
C. HERMANS, H. M. J. UDO (The Netherlands) & F. DAWOOD (Bangladesh)	
Book Review . . . . .	385

